

Title (en)
Mobile IPV6 authentication and authorization

Title (de)
Mobile IPV6-Authentifizierung und Autorisierung

Title (fr)
Authentification et autorisation pour Mobile IPV6

Publication
EP 2698965 A1 20140219 (EN)

Application
EP 13004672 A 20050413

Priority
• US 56204904 P 20040414
• US 10376805 A 20050413
• EP 05746363 A 20050413

Abstract (en)
The invention consists of an authentication protocol for the Home Agent to authenticate and authorize the Mobile Node's Binding Update message. Two new mobility options compatible with RADIUS AAA are used to exchange a shared secret between the Home Agent and the Mobile Node so the Mobile Node can be authenticated. A Mobile Node-AAA authenticator option is added to the Binding Update message. The Mobile Node generates the Mobile Node-AAA authenticator as a shared secret that it communicates as authentication data to the RADIUS AAA server on the home network. The RADIUS AAA server authenticates the communication and generates a shared secret for calculating a Mobile Node-Home Agent authenticator option in the messages transmitted between the Home Agent and the Mobile Node.

IPC 8 full level
H04L 29/06 (2006.01); **H04W 80/04** (2009.01)

CPC (source: EP US)
H04L 63/061 (2013.01 - EP US); **H04L 63/062** (2013.01 - EP US); **H04L 63/0892** (2013.01 - EP US); **H04L 63/126** (2013.01 - EP US); **H04W 80/04** (2013.01 - EP US)

Citation (search report)
• [XA] US 2002120844 A1 20020829 - FACCIN STEFANO [US], et al
• [XP] WO 2004049672 A2 20040610 - CISCO TECH IND [US]
• [X] PERKINS C E ET AL: "AAA Registration Keys for Mobile IPv4", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, 29 March 2004 (2004-03-29), XP015022965
• [X] CALHOUN P ET AL: "Diameter Mobile IPv4 Application", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, February 2004 (2004-02-01), XP015015001
• [XP] KUNTAL CHOWDHURY ET AL: "Mobile IPv6 baseline text; X31-20040527-003R1", 3RD GENERATION PARTNERSHIP PROJECT 2, 3GPP2 TSG-X, 27 May 2004 (2004-05-27), pages 1 - 25, XP055094843, Retrieved from the Internet <URL:ftp://ftp.3gpp2.org/TSGX/Working/2004/2004-06/TSG-X-2004-06-Philadelphia/WG3-PSN/SWG31-PDS/X31-20040527-003R1-Nortel-Nokia-MIP6-baseline-text.doc> [retrieved on 20140106]
• [A] PATEL A. ET AL: "Authentication Protocol for Mobile IPv6", IETF STANDARD-WORKING-DRAFT, INTERNET ENGINEERING TASK FORCE, IETF, February 2004 (2004-02-01), XP015033765

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
WO 2005104487 A1 20051103; EP 1735990 A1 20061227; EP 1735990 B1 20180530; EP 2698965 A1 20140219; US 2005237983 A1 20051027; US 2012131644 A1 20120524; US 2013333001 A1 20131212; US 8139571 B2 20120320; US 8514851 B2 20130820

DOCDB simple family (application)
US 2005012600 W 20050413; EP 05746363 A 20050413; EP 13004672 A 20050413; US 10376805 A 20050413; US 201213374933 A 20120124; US 201313968189 A 20130815